

§ 177.210

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- (ii) Steering and steering control, including rudder details;
- (iii) Ventilation diagrams; and
- (iv) Engine exhaust diagram;
- (4) Electrical installation including, but not limited to:
 - (i) Elementary one-line diagram of the power system;
 - (ii) Cable lists;
 - (iii) Bills of materials;
 - (iv) Type and size of generators and prime movers;
 - (v) Type and size of generator cables, bus-tie cables, feeders, and branch circuit cables;
 - (vi) Power, lighting, and interior communication panelboards with number of circuits and rating of energy consuming devices;
 - (vii) Type of capacity of storage batteries;
 - (viii) Rating of circuit breakers and switches, interrupting capacity of circuit breakers, and rating and setting of overcurrent devices; and
 - (ix) Electrical plant load analysis.
- (5) Lifesaving equipment locations and installation;
- (6) Fire protection equipment installation including, but not limited to:
 - (i) Fire main system plans and calculations;
 - (ii) Fixed gas fire extinguishing system plans and calculations;
 - (iii) Fire detecting system and smoke detecting system plans;
 - (iv) Sprinkler system diagram and calculations; and
 - (v) Portable fire extinguisher types, sizes and locations;
- (7) Fuel tanks;
- (8) Piping systems including: bilge, ballast, hydraulic, sanitary, compressed air, combustible and flammable liquids, vents, soundings, and overflows;
- (9) Hull penetrations and shell connections;
- (10) Marine sanitation device model number, approval number, connecting wiring and piping; and
- (11) Lines and offsets, curves of form, cross curves of stability, and tank capacities including size and location on vessel; and
- (12) On sailing vessels:
 - (i) Masts, including integration into the ship's structure; and

- (ii) Rigging plan showing sail areas and centers of effort as well as the arrangement, dimensions, and connections of the standing rigging.

(c) For a vessel of not more than 19.8 meters (65 feet) in length, the owner may submit specifications, sketches, photographs, line drawings or written descriptions instead of any of the required drawings, provided the required information is adequately detailed and acceptable to the cognizant OCMI.

(d) An owner may submit any plans, manuals, or calculations, required to be submitted to the OCMI under this part, to the Commanding Officer, U.S. Coast Guard Marine Safety Center (Marine Safety Center), 400 Seventh Street, SW., Washington, DC 20590-0001. Three copies of all documents are required to be submitted for Marine Safety Center plan approval.

(e) For a vessel, the construction of which was begun prior to approval of the plans and information required by paragraphs (a) and (b) of this section, the cognizant OCMI may require any additional plans and information, manufacturers' certifications of construction, testing including reasonable destructive testing, and inspections, which the OCMI determines are necessary to verify that the vessel complies with the requirements of this subchapter.

§ 177.210 Plans for sister vessels.

(a) Plans are not required for a vessel that is a sister vessel, provided:

(1) Approved plans for the original vessel are on file at the Marine Safety Center or in the files of the cognizant OCMI;

(2) The owner of the plans authorizes their use for the new construction of the sister vessel;

(3) The regulations used for the original plan approval have not changed since the original approval; and

(4) There are no major modifications to any of the systems to be used.

(b) If approved plans for the original vessel are not on file at the MSC or with the cognizant OCMI, the vessel owner shall submit plans as described in § 177.202 of this part.